

ABSTRAK

UPAYA MENINGKATKAN MINAT DAN HASIL BELAJAR MATEMATIKA SISWA MELALUI MODEL PEMBELAJARAN *PROBLEM SOLVING* BERBANTUAN MEDIA SOSIAL “TIKTOK” DI SMAN 21 MEDAN

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Penelitian ini bertujuan untuk meningkatkan minat dan hasil belajar siswa kelas X SMAN 21 Medan dalam pembelajaran matematika melalui model pembelajaran *problem solving berbantuan media sosial TikTok*.

Jenis penelitian ini adalah Penelitian Quasi Eksperimental Research. Subjek penelitian ini adalah siswa kelas X SMAN 21 Medan yang berjumlah 40 siswa. Desain penelitian yang digunakan adalah *The One Group Pretest-Posttest Design*. Metode pengumpulan data yang digunakan dalam penelitian ini adalah : 1) observasi, 2) skala minat belajar matematika dan 3) tes. Teknik analisis data yang digunakan adalah Kuantitatif Eksperimen.

Hasil penelitian menunjukkan bahwa dari uji prasyarat minat dan hasil belajar matematika siswa berdistribusi normal. Data minat belajar matematika siswa sebelum perlakuan dengan skor rata-rata 70,76, dan data minat belajar matematika siswa menggunakan model pembelajaran *problem solving berbantuan media sosial TikTok* dengan skor rata-rata 80,92 sedangkan hasil belajar matematika siswa sebelum menggunakan model pembelajaran *problem solving berbantuan media sosial TikTok* 43,98, dan data hasil belajar matematika siswa menggunakan model pembelajaran *problem solving berbantuan media sosial TikTok* 83,55, ini berarti model pembelajaran *problem solving berbantuan media sosial TikTok* meningkatkan minat dan hasil belajar matematika siswa dibandingkan sebelum perlakuan.

Berdasarkan hasil analisis data dapat disimpulkan bahwa : 1) Model pembelajaran *problem solving berbantuan media sosial TikTok* meningkatkan minat belajar matematika terhadap siswa. Dimana hasil uji korelasi 0,640 dengan indeks determinasi = $>0,50-0,75$, artinya Model pembelajaran *problem solving berbantuan media sosial TikTok* berkorelasi kuat terhadap minat belajar matematika siswa; 2) Model pembelajaran *problem solving berbantuan media sosial TikTok* dapat meningkatkan hasil belajar matematika siswa yang signifikan dengan $t_{hitung} \geq t_{tabel}$ atau $2,251 > 1,665$. Dengan demikian terdapat peningkatan yang signifikan terhadap minat dan hasil belajar matematika siswa menggunakan Model pembelajaran *problem solving berbantuan media sosial TikTok* di SMAN 21 Medan.

Kata kunci : *model pembelajaran problem solving, TikTok, minat dan hasil belajar matematika*

ABSTRACT

EFFORTS TO IMPROVE STUDENTS' INTEREST AND LEARNING OUTCOMES IN MATHEMATICS THROUGH THE PROBLEM SOLVING LEARNING MODEL ASSISTED BY SOCIAL MEDIA "TIKTOK" AT SMAN 21 MEDAN

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This study aims to improve the interest and learning outcomes of class X students of SMAN 21 Medan in learning mathematics through the problem solving learning model assisted by TikTok social media.

This type of research is Quasi Experimental Research (Pseudo Experimental Research). The subjects of this study were 40 class X students of SMAN 21 Medan. The research design used was The One Group Pretest-Posttest Design. Data collection methods used in this study are: 1) observation, 2) scale of interest in learning mathematics and 3) test. The data analysis technique used is Quantitative Experiment.

The results of the study showed that from the prerequisite test, students' interest and learning outcomes in mathematics were normally distributed. Data on students' interest in learning mathematics before treatment with an average score of 70.76, and data on students' interest in learning mathematics using the TikTok social media-assisted problem solving learning model with an average score of 80.92 while students' mathematics learning outcomes before using the TikTok social media-assisted problem solving learning model were 43.98, and data on students' mathematics learning outcomes using the TikTok social media-assisted problem solving learning model were 83.55, this means that the TikTok social media-assisted problem solving learning model increases students' interest and mathematics learning outcomes compared to before treatment.

Based on the results of the data analysis, it can be concluded that: 1) The TikTok social media-assisted problem solving learning model increases students' interest in learning mathematics. Where the correlation test results are 0.640 with a determination index \Rightarrow 0.50-0.75, meaning that the TikTok social media-assisted problem solving learning model has a strong correlation with students' interest in learning mathematics; 2) The TikTok social media-assisted problem solving learning model can significantly improve students' mathematics learning outcomes with $t \text{ count} \geq t \text{ table}$ or $2.251 > 1.665$. Thus, there is a significant increase in students' interest and learning outcomes in mathematics using the TikTok social media-assisted problem solving learning model at SMAN 21 Medan.

Keywords: *problem solving learning model, TikTok, interest and learning outcomes in mathematics*